

Fall 2011: New Course Offering in Chemical Engineering

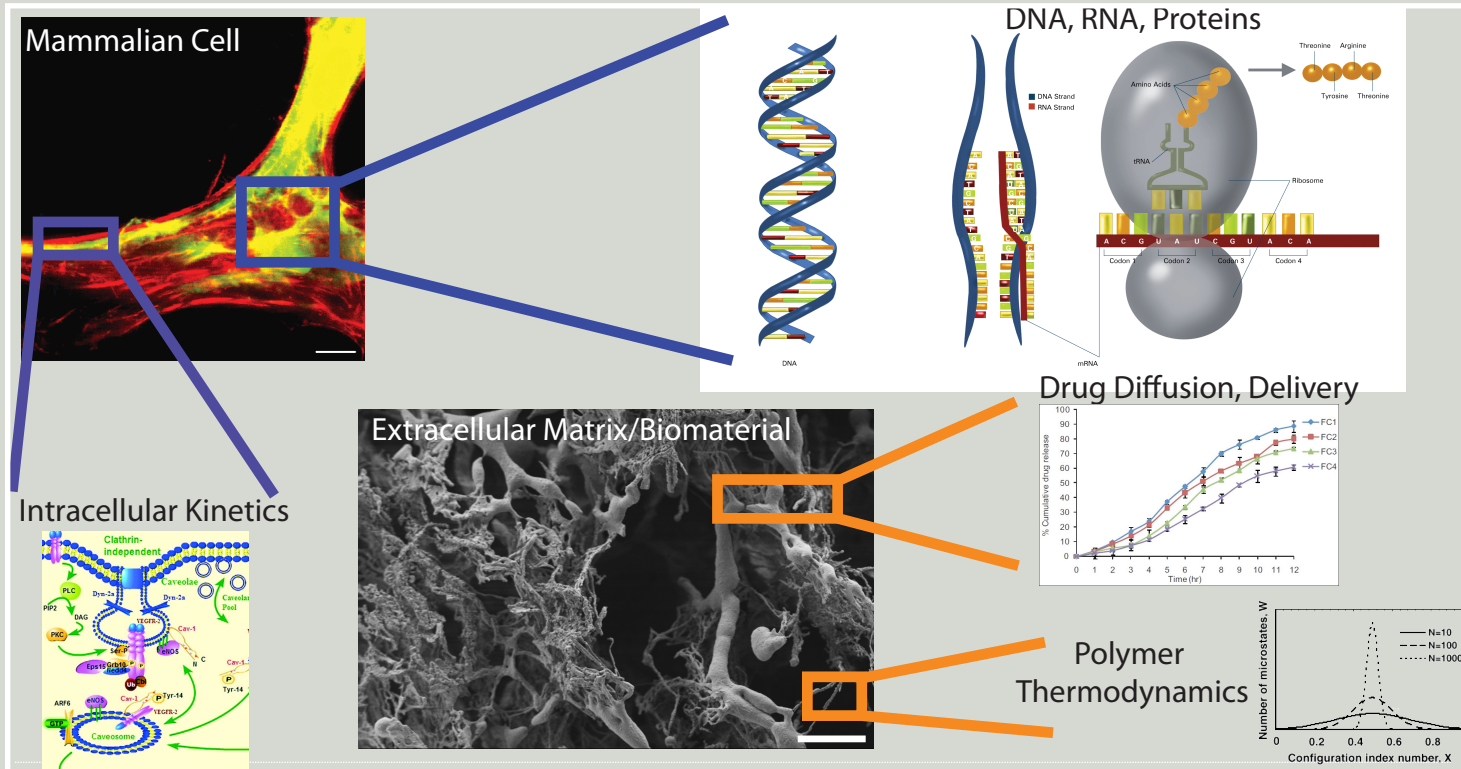
Chemical Engineering Principles of Biological Systems

ChemEng 290B

Instructor: Prof. Shelly Peyton

T/R 9:30-10:45

From DNA to Cells
to Organized Tissues,
all in an Engineering
Framework



The best Bioengineers are Chemical Engineers! Come learn about how cells grow, move, and process information from their surroundings using quantitative techniques. We will discuss the current state of the field of Bioengineering, and what engineers can contribute to analyzing complex biological systems to help treat human disease. We will frame cell behavior and cell-matrix communication using core Chemical Engineering concepts, such as mass and energy balances, thermodynamics, and kinetics. Students should have taken either ChemEng 110 or 120. Open to Chemical Engineering Majors Only. Contact Prof. Peyton with questions.